

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file 2475/002635	FOR FURTHER ACTION		nsmittal of International Search Report as well as, where applicable, item 5 below.
International application	No. International filing date ('day/month/year) (E	arliest) Priority Date (day/month/year)
PCT/EP 00/0586	3 23/06/2	2000	30/06/1999
Applicant KNOLL AKTIENGE:	SELLSCHAFT		
	ch Report has been prepared by this Internat A copy is being transmitted to the Internation		and is transmitted to the applicant
	ch Report consists of a total of6 to accompanied by a copy of each prior art do	sheets. ocument cited in this repo	ort.
	the language, the international search was clich it was filed, unless otherwise indicated un		the international application in the
	ernational search was carried out on the basing (Rule 23.1(b)).	s of a translation of the in	ternational application furnished to this
b. With regard to was carried ou contain	any nucleotide and/or amino acid sequence ton the basis of the sequence listing: ned in the international application in written figether with the international application in co	form.	ational application, the international search
furnish	ed subsequently to this Authority in written fo	orm.	
furnish	ed subsequently to this Authority in compute	r readble form.	
	tement that the subsequently furnished writte tional application as filed has been furnished		not go beyond the disclosure in the
the sta furnish		outer readable form is ide	ntical to the written sequence listing has been
2. X Certair	n claims were found unsearchable (See B	ox I).	
3. Unity	of invention is lacking (see Box II).		
4. With regard to the	title,		
L.,	t is approved as submitted by the applicant.		
X the tex	t has been established by this Authority to re	ad as follows:	
SCREENING F	FOR COMPOUNDS MODULATING MI	TOCHONDRIAL PRO	OTON LEAK
5. With regard to the	abstract,		
the tex	t is approved as submitted by the applicant. t has been established, according to Rule 38 one month from the date of mailing of this int	3.2(b), by this Authority as ernational search report,	s it appears in Box III. The applicant may, submit comments to this Authority.
6. The figure of the d	rawings to be published with the abstract is	Figure No.	1
as sug	gested by the applicant.		None of the figures.
X because	se the applicant failed to suggest a figure.		
D becaus	se this figure better characterizes the invention	on.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 56,58 and 60 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 56,58,60

Rule 39.1(iv) PCT — Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Present claims 53-55 relate to compounds defined by reference to a desirable characteristic or property, namely that these compounds are identifiable in a screening method according to any one of claims 3-52. Claim 56 relates to a method using these compounds and claim 57 relates to a use of these compounds.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned in the description at pages 28. lines 4-22.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERMINIONAL SEARCH REPORT

Inte nal Application No PCT/EP 00/05863

			· · ·		
A. CLASS IPC 7	FICATION OF SUBJECT MATTER G01N33/50				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS	SEARCHED				
IPC 7	Minimum documentation searched (classification system followed by classification symbols)				
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	earched		
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)		
BIOSIS	, EPO-Internal, WPI Data, PAJ, EMBAS	SE, MEDLINE, CHEM ABS D	ata 		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.		
X	JEKABSONS M ET AL: "Effect of nucleotides on rat liver and skeletal muscle mitochondria non-phosphorylating respiration and membrane potential." FASEB JOURNAL, vol. 12, no. 5, 20 March 1998 (1998-03-20), page A813 XP002154017 Annual Meeting of the Professional Research Scientists on Experimental Biology 98, Part II; San Francisco, California, USA; April 18-22, 1998		1,3,5-7, 11, 15-23, 27,29-33		
А	ISSN: 0892-6638 cited in the application left-hand column, paragraph 4714	-/- -	1-3, 34-36, 41-43, 50-52		
χ Furti	ner documents are listed in the continuation of box C.	Patent family members are listed	in annex.		
° Special ca	tegories of cited documents :	PTF loter decument with light of effects	rnational filips data		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is called to establish the publication date of another citation or other means "P" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "S" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is cannot be considered novel or cannot be cons					
Date of the actual completion of the international search Date of mailing of the international search report					
Name and n		24/01/2001			
мате апа п	Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer Authorized officer Tuynman, A				

INTERMITIONAL SEARCH REPORT

Inte nal Application No PCT/EP 00/05863

		PCT/EP 00/05863
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MONEMDJOU S ET AL: "Mitochondrial proton leak in brown adipose tissue, mitochondria of UCP1-deficient mice is GDP insensitive" AMERICAN JOURNAL OF PHYSIOLOGY: ENDOCRINOLOGY AND METABOLISM, June 1999 (1999-06), pages E1073-E1082, XP002154018 abstract page E1074, left-hand column, line 7 -page E1075, left-hand column, line 42 page E1075; figure 1 page E1076; figure 3	1,3,6,7, 10,11, 14-23, 25-28, 30,31,33
Α	F-3	1,3,36, 41,43, 50,52
A	EARNSHAW M J ET AL: "THE ADENINE NUCLEOTIDE CARRIER OF PLANT MITOCHONDRIA CONTRACTION INDUCED BY ADP" PLANT SCIENCE LETTERS, vol. 6, no. 5, 1976, pages 343-348, XP000972265 ISSN: 0304-4211 the whole document	1-4,21,
A	BOUILLAUD F ET AL: "A sequence related to a DNA recognition element is essential for the inhibition by nucleotides of proton transport through the mitochondrial uncoupling protein." EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 13, no. 8, 1994, pages 1990-1997, XP002154020 ISSN: 0261-4189 abstract page 1994; figure 7	1-4,7,9, 11,13, 29,32, 34,35, 41,42, 50,51
X	BLOCK M R ET AL: "INTERACTION OF 3'-0-1 NAPHTHOYL ADP A FLUORESCENT ADP ANALOG WITH THE ADP ATP CARRIER PROTEIN IN THE MITOCHONDRIAL MEMBRANE" BIOCHEMISTRY, vol. 21, no. 22, 1982, pages 5451-5457, XP002154021 ISSN: 0006-2960 abstract -/	37-40

INTERNATIONAL SEARCH REPORT

Intended and Application No
PCT/EP 00/05863

		FC1/EF 00/05863	
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
T	CADENAS S ET AL: "AMP decreases the efficiency of skeletal-muscle mitochondria" BIOCHEMICAL JOURNAL, vol. 351, no. 2, 15 October 2000 (2000-10-15), pages 307-311, XP000974944 the whole document	1-52	
X	PARES, XAVIER ET AL: "The reaction of bovine pancreatic ribonuclease A with 6-chloropurineriboside 5'- monophosphate. Evidence on the existence of a phosphate-binding sub-site" EUR. J. BIOCHEM., vol. 105, no. 3, 1980, pages 571-580, xx0000274761	53-55	
Α	XP000974761 abstract	57,59	

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING NASH, David, Allan OF A CHANGE Haseltine Lake & Co. Imperial House (PCT Rule 92bis.1 and 15-19 Kingsway Administrative Instructions, Section 422) London WC2B 6UD **ROYAUME-UNI** Date of mailing (day/month/year) 13 December 2001 (13.12.01) Applicant's or agent's file reference IMPORTANT NOTIFICATION 2475/002635 International application No. International filing date (day/month/year) PCT/EP00/05863 23 June 2000 (23.06.00) 1. The following indications appeared on record concerning: the applicant the inventor the agent the common representative State of Nationality State of Residence Name and Address DE DE KNOLL AKTIENGESELLSCHAFT D-67061 Ludwigshafen Telephone No. Germany Facsimile No. Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the person X the name the address the nationality the residence State of Nationality State of Residence Name and Address DE DE KNOLL GMBH D-67061 Ludwigshafen Telephone No. Germany Facsimile No. Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: the receiving Office the designated Offices concerned the International Searching Authority the elected Offices concerned the International Preliminary Examining Authority other: Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Ki-Nam HA 1211 Geneva 20, Switzerland

Telephone No.: (41-22) 338.83.38

Form PCT/IB/306 (March 1994)

Facsimile No.: (41-22) 740.14.35

	or the Elected Office (E0	
F ⇒ ENT	COOPERATION	TREA

	From t	he INTERNATIONAL B	UREAU
PCT			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	BAS D-67	DSCHEID, Bettina F Aktiengesellschaft 7056 Ludwigshafen EMAGNE	
07 November 2001 (07.11.01)	<u> </u>		
Applicant's or agent's file reference 2475/002635		IMPORTANT NOTI	FICATION
International application No. PCT/EP00/05863	i .	onal filing date (day/month/yo June 2000 (23.06.00)	ear)
1. The following indications appeared on record concerning:			
X the applicant the inventor	the age	nt the commo	on representative
Name and Address KNOLL AKTIENGESELLSCHAFT		State of Nationality DE	State of Residence DE
NIVOLL ANTILINGLOLLESCHALT		Telephone No.	<u> </u>
		Facsimile No.	——————————————————————————————————————
		Teleprinter No.	
			
2. The International Bureau hereby notifies the applicant that t the person X the name the add		the nationality	concerning: the residence
Name and Address		State of Nationality DE	State of Residence DE
KNOLL GMBH		Telephone No.	<u> </u>
		Facsimile No.	
		Teleprinter No.	
3. Further observations, if necessary:			
4. A copy of this notification has been sent to:			
X the receiving Office	ſ	the designated Offices	concerned
the International Searching Authority	į	X the elected Offices cond	cerned
the International Preliminary Examining Authority	{	other:	
The leaves of the country	Authorized	officer	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Ki-Nam HA	
Facsimile No.: (41-22) 740.14.35	Telephone	No.: (41-22) 338.83.38	,

PCT

REC'D 0 4 OCT 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference			
2475/002	_	FOR FURTHER A	ATIANI	Notification of Transmittal of International ninary Examination Report (Form PCT/IPEA/416)
Internationa	al application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/EPC	0/05863	23/06/2000		30/06/1999
Internationa C12Q1/0 Applicant	,	PC) or national classification and IP	c	
KNOLL A	KTIENGESELLSCH	HAFT et al.		
1. This in and is	nternational preliminal transmitted to the ap	y examination report has been plicant according to Article 36.	prepared by thi	s International Preliminary Examining Authority
2. This F	REPORT consists of a	total of 7 sheets, including this	s cover sheet.	
b	een amended and are	mpanied by ANNEXES, i.e. she the basis for this report and/or action 607 of the Administrative	sheets containi	ription, claims and/or drawings which have ng rectifications made before this Authority der the PCT).
These	annexes consist of a	total of sheets.		
3. This re	eport contains indicati	ons relating to the following iten	ns:	
}	Basis of the rep	ort		
11	☐ Priority			
111	☑ Non-establishm	ent of opinion with regard to no	velty, inventive	step and industrial applicability
IV	☐ Lack of unity of	invention		
V	Reasoned state citations and ex	ment under Article 35(2) with re planations suporting such state	egard to novelty ment	, inventive step or industrial applicability;
VI	☐ Certain docume	ents cited		
VII	⊠ Certain defects	in the international application		
VIII	☑ Certain observa	tions on the international applic	ation	
	·			
Date of subr	mission of the demand		Date of completi	on of this report
08/12/200	00		01.10.2001	
	nailing address of the inte	rnational	Authorized office	OF LEGO ASOLUTION CONTRACTOR OF THE PROPERTY O

Hinchliffe, P

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European Patent Office D-80298 Munich

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d



International application No. PCT/EP00/05863

1.	the and	receiving Office in	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" of this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-2	9	as originally filed
	Cla	ims, No.:	
	1-6	0	as originally filed
	Dra	wings, sheets:	
	1/1		as originally filed
2.			puage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	ublication of the international application (under Rule 48.3(b)).
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	ently to this Authority in written form.
		furnished subsequ	ently to this Authority in computer readable form.
			t the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence rnished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

resident de la company de

International application No. PCT/EP00/05863

		the drawings,	sheets:
5.			established as if (some of) the amendments had not been made, since they have been cond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Ado	litional observations, i	necessary:
	NI		
ш.	Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability
1.			e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:
		the entire internation	al application.
	×	claims Nos. 1,2,34-3	5,41-43,47-60.
be	caus	e:	
	×		application, or the said claims Nos. 55,56,58,60 (with respect to I.A.) relate to the ter which does not require an international preliminary examination (<i>specify</i>):
	⊠		s or drawings (indicate particular elements below) or said claims Nos. 1,2 are so ingful opinion could be formed (specify):
		the claims, or said claimeaningful opinion c	aims Nos. 34-36,41-43,47-60 are so inadequately supported by the description that no buld be formed.
		no international searc	ch report has been established for the said claims Nos
2.	and/		preliminary examination cannot be carried out due to the failure of the nucleotide ce listing to comply with the standard provided for in Annex C of the Administrative
		the written form has r	not been furnished or does not comply with the standard.
		the computer readab	e form has not been furnished or does not comply with the standard.
٧.			der Article 35(2) with regard to novelty, inventive step or industrial applicability; ns supporting such statement
۱.	State	ement	
	Nov	alty (NI)	Vac: Claime





International application No. PCT/EP00/05863

No:

Claims 3,5-7,9-11,13-23,25-33,37-40,44-46

Inventive step (IS)

Yes: No:

Claims

Claims 3,4,5-7,8,9-11,12,13-23,24,25-33,37-40,44-46

Industrial applicability (IA)

Yes:

Claims 3-33,37-40,44-46

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ITEM III

- In contrast to the ISR, the IPEA is of the opinion that claims 1 and 2 are so 1. unclear that a meaningful examination is not possible (see item VIII below for the reasons).
- Claims 55,56,58,60 relate to subject-matter considered by this Authority to be 2. covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

ITEM V

- 1. Claims 3,5-7,9-11,13-23,27,29-30 are not novel, contrary to Article 33(2) PCT, in the light of D1 (as cited sequentially in the ISR). This document discloses a method of testing the effects of nucleotides on non-phosphorylating VO₂ which involves the steps covered by the said claims.
- Claims 3,6,7,10,11,14-23,25-28,30-33 are also not novel, contrary to Article 33(2) 2. PCT, in the light of D2 (as cited sequentially in the ISR). Again this document discloses methods whereby the effects of nucleotides on UCPs is measured using an oxygen electrode (see in particular materials and methods section).
- 3. Claims 37-40, are not novel, contrary to Article 33(2) PCT, in the light of D5 (as cited in the ISR). This document discloses that a mitochondrial transporter protein (ANC is apparently a member of this family and is responsible for shuttling ADP/ATP) may be inhibited by N-ADP, a fluorescently labelled analog of ADP. In addition CATR and bongkrekic acid are both compounds that reduce the amount of the labelled ligand (see in particular p.5453, col.1, fourth paragraph).
- Claims 4,8,12,24 do not involve an inventive step contrary to Article 33(3) PCT. 4. The particular modifications made to the assays of either D1 or D2 are considered to be routine and within the realms of a normally skilled person.
- Claims 44-46 are not novel (Article 33(2) PCT) in the light of D2. It is assumed 5.

that the UCP 1-3 proteins of this document are equivalent to the ANC 1-3 proteins mentioned on page 13, line 21 of the description. This document teaches an assay whereby GDP was used to control non phosphorylative oxidation in mice lacking UCP-1. Comparison with normal systems showed that UCP-2 and UCP-3 were not GDP sensitive. Consequently D2 discloses an assay for identifying compounds which modulate proton leak.

6. For the assessment of the present claims 55,58,60 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

ITEM VII

1. Contrary to the requirements of Article 5 PCT, claims 34-36 and 41-43,47-60 are not supported by the description. It is only assumed that the compounds identified will have an effect on obesity (see p.2, lines 13-15 and p.28, lines 24-31). No actual evidence is provided to substantiate any of the claims and consequently the claims do not fulfill the requirements of said Article. The same is true for cachexia. In addition the introduction of D2 notes that UCP-1 deficient mice were not obese as expected, leading to further doubts as to whether the currently identified compounds/methods would really be useful for treating obesity.

ITEM VIII

1. Claims 1 and 2 are deemed to be contrary to the requirements of Article 6 PCT because they are unclear insofar as they fail to provide sufficient information for any valid opinion to be formed on whether they are novel or inventive. For instance the prior art document D1 (as cited in the ISR) discloses several proteins related to UCP-1 which are involved in non phosphorylating respiration. Any of these proteins could be or include such a site, but as the claims fail to mention whether protein or gene regulation is occurring the skilled person is left completely



confused as to what sort of regulatory site is encompassed.

2. The term "ANC", found in claims 34 et seq. should be clarified on its first use (Article 6 PCT).

INTERNATIONAL SEARCH REPORT



Inter: nal Application No PCT/EP 00/05863

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N33/50					
According to	According to International Patent Classification (IPC) or to both national classification and IPC				
	SEARCHED				
IPC 7	ocumentation searched (classification system followed by classificat ${ t GOIN}$	ion symbols)			
Documentat	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	earched		
Electronic d	ata base consulted during the international search (name of data ba	ase and, where practical, search terms used)		
BIOSIS	, EPO-Internal, WPI Data, PAJ, EMBA	SE, MEDLINE, CHEM ABS D	ata		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.		
X	JEKABSONS M ET AL: "Effect of mon rat liver and skeletal muscle mitochondria non-phosphorylating respiration and membrane potenti FASEB JOURNAL, vol. 12, no. 5, 20 March 1998 (1998-03-20), page XP002154017 Annual Meeting of the Profession Research Scientists on Experimen Biology 98, Part II; San Francisc	al." A813 al tal	1,3,5-7, 11, 15-23, 27,29-33		
A	California, USA; April 18-22, 19 ISSN: 0892-6638 cited in the application left-hand column, paragraph 4714	98	1-3, 34-36, 41-43, 50-52		
X Furti	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alon counter or particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alon cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combination being obvious to a person skilled in the art. "A" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combination being obvious to a person skilled in the art. "A" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. 		the application but early underlying the claimed invention to considered to coument is taken alone claimed invention eventive step when the ore other such docu-			
Date of the	actual completion of the international search	Date of mailing of the international se	arch report		
3	January 2001	24/01/2001			
Name and I	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Tuynman, A			

INTERNATIONAL SEARCH REPORT



Inter vial Application No PCT/EP 00/05863

		PC1/EP 00/05863		
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	MONEMDJOU S ET AL: "Mitochondrial proton leak in brown adipose tissue, mitochondria of UCP1-deficient mice is GDP insensitive" AMERICAN JOURNAL OF PHYSIOLOGY: ENDOCRINOLOGY AND METABOLISM, June 1999 (1999-06), pages E1073-E1082, XP002154018—abstract page E1074, left-hand column, line 7 -page E1075, left-hand column, line 42 page E1075; figure 1 page E1076; figure 3	1,3,6,7, 10,11, 14-23, 25-28, 30,31,33		
A		1,3,36, 41,43, 50,52		
A	EARNSHAW M J ET AL: "THE ADENINE NUCLEOTIDE CARRIER OF PLANT MITOCHONDRIA CONTRACTION INDUCED BY ADP" PLANT SCIENCE LETTERS, vol. 6, no. 5, 1976, pages 343-348, XP000972265 ISSN: 0304-4211 the whole document	1-4,21, 34		
A	BOUILLAUD F ET AL: "A sequence related to a DNA recognition element is essential for the inhibition by nucleotides of proton transport through the mitochondrial uncoupling protein." EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 13, no. 8, 1994, pages 1990-1997, XP002154020 ISSN: 0261-4189 abstract page 1994; figure 7	1-4,7,9, 11,13, 29,32, 34,35, 41,42, 50,51		
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Inter: nal Application No PCT/EP 00/05863

claim No.
claim No
52
-55
, 59

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 56,58 and 60 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 56,58,60

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Present claims 53-55 relate to compounds defined by reference to a desirable characteristic or property, namely that these compounds are identifiable in a screening method according to any one of claims 3-52. Claim 56 relates to a method using these compounds and claim 57 relates to a use of these compounds.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned in the description at pages 28. lines 4-22.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.